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Amendments to the Claims

Please cancel claims 1-2, 18, 24, 63, 86-96 and 121 without prejudice towards the filing thereof in any subsequent continuation application, and amend the remaining claims as follows:

1. (Canceled)
2. (Canceled)
3. (Previously Presented) A circuit, comprising:
 - a) a differential signal transmission line;
 - b) a common mode circuit comprising first and second resistances in series, said common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line; and
 - c) at least one overvoltage protection circuit in communication with said common mode circuit, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line and said overvoltage protection circuit is coupled to a node between said first and second resistances.
4. (Currently Amended) The circuit of Claim 13, wherein said first and second resistances comprise first and second termination resistors.
5. (Currently Amended) The circuit of Claim 13, further comprising an input buffer configured to receive a differential signal from said differential signal transmission line.
6. (Previously Presented) The circuit of Claim 5, wherein each of said first and second resistances is less than a resistance component of an impedance of said input buffer.

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7. (Currently Amended) The circuit of Claim 1~~3~~, wherein said common mode circuit further comprises a third resistor configured to receive a common mode voltage.
8. (Previously Presented) The circuit of Claim 7, wherein said third resistor is coupled to a node between said first and second resistances.
9. (Previously Presented) A circuit, comprising:
 - a) a differential signal transmission line;
 - b) a common mode circuit comprising first and second resistances in series and a third resistor coupled to a node between said first and second resistances, said third resistor configured to receive a common mode voltage, and said common mode circuit in communication with said differential signal transmission line and configured to reduce a swing of said differential signal transmission line; and
 - c) at least one overvoltage protection circuit in communication with said common mode circuit, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line and said overvoltage protection circuit is also coupled to said node between said first and second resistances.
10. (Previously Presented) The circuit of Claim 8, wherein said third resistor has a resistance at least ten times greater than a resistance of said first and second resistances.
11. (Previously Presented) The circuit of Claim 10, wherein said third resistor has a resistance at least one hundred times greater than said resistance of said first and second resistances.
12. (Currently Amended) The circuit of Claim 1~~3~~, further comprising first and second input terminals configured to receive a differential signal for said differential signal transmission line.

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13. (Currently Amended) The circuit of Claim ~~13~~, wherein said differential signal transmission line comprises a first conduit and a second conduit, wherein said second conduit is complementary to said first conduit.
14. (Previously Presented) A circuit, comprising:
 - a) a differential signal transmission line;
 - b) a common mode circuit in communication with said differential signal transmission line, comprising first and second resistors in series between said first and second conduits, and configured to reduce a swing of said differential signal transmission line; and
 - c) an overvoltage protection circuit coupled to a node between said first and second resistors, comprising at least one diode in communication with said common mode circuit, wherein said at least one diode has a threshold voltage greater than a voltage swing of said differential signal transmission line and at least part of said common mode circuit is electrically interposed between said diode and said differential signal transmission line.
15. (Currently Amended) The circuit of Claim ~~14~~, wherein said differential signal transmission line has a maximum voltage swing of less than 2 volts.
16. (Previously Presented) The circuit of Claim 15, wherein said differential signal transmission line has a maximum voltage swing of less than 1.5 volts.
17. (Currently Amended) The circuit of Claim ~~13~~, wherein said at least one overvoltage protection circuit comprises at least one diode.
18. (Canceled)

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19. (Original) The circuit of Claim 17, wherein said at least one overvoltage protection circuit comprises at least two diodes in series.
20. (Currently Amended) The circuit of Claim 43, wherein said at least one overvoltage protection circuit is in further communication with a low impedance node.
21. (Original) The circuit of Claim 20, wherein said low impedance node comprises a power supply node, a virtual ground node or a ground potential.
22. (Previously Presented) A circuit, comprising:
 - a) a differential signal transmission line;
 - b) a common mode circuit comprising first and second termination resistors in series, and third and fourth resistors in series between said first and second termination resistors, said common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line; and
 - c) at least one overvoltage protection circuit in communication with said common mode circuit, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line.
23. (Original) The circuit of Claim 22, wherein said at least one overvoltage protection circuit comprises (i) a first overvoltage protection circuit coupled to a first node between said first termination resistor and said third resistor, and (ii) a second overvoltage protection circuit coupled to a second node between said second termination resistor and said fourth resistor.
24. (Canceled)

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25. (Currently Amended) The circuit of Claim 2426, wherein said means for reducing comprises first and second resistors in series.
26. (Previously Presented) A circuit, comprising:
- a) means for transferring a differential signal;
 - b) means for reducing a swing of said means for transferring; and
 - c) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage coupled to a node between said first and second resistors, wherein at least part of said means for reducing is electrically interposed between said at least one means for protecting and said means for transferring.
27. (Previously Presented) The circuit of Claim 25, further comprising a means for buffering said differential signal, configured to receive said differential signal from said means for transferring.
28. (Original) The circuit of Claim 27, wherein said first and second resistors each have a resistance less than a resistance component of an impedance of said means for buffering.
29. (Currently Amended) The circuit of Claim 2426, wherein said means for reducing comprises a means for applying a common mode voltage.
30. (Original) The circuit of Claim 29, wherein said means for applying is coupled to a node between first and second means for terminating said differential signal.
31. (Original) The circuit of Claim 29, wherein said means for applying a common mode voltage comprises a resistor receiving said common mode voltage.
32. (Original) The circuit of Claim 31, wherein said resistor has a resistance at least one hundred times greater than said resistance of said first and second means for terminating.

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33. (Previously Presented) A circuit, comprising:
- a) means for transferring a differential signal;
 - b) a means for applying a common mode voltage, comprising a resistor receiving said common mode voltage and having a resistance at least one hundred times greater than a resistance of first and second means for terminating said differential signal; and
 - c) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage coupled to a node between said first and second means for terminating, wherein at least part of said means for applying is electrically interposed between said at least one means for protecting and said means for transferring.
34. (Currently Amended) The circuit of Claim 24~~26~~, wherein said means for transferring comprises a differential signal transmission line.
35. (Original) The circuit of Claim 34, further comprising means for receiving said differential signal for said differential signal transmission line.
36. (Original) The circuit of Claim 34, wherein said differential signal transmission line comprises a first conduit and a second conduit, wherein said second conduit is complementary to said first conduit.
37. (Previously Presented) A circuit, comprising:
- a) means for transferring a differential signal;
 - b) means for reducing a swing of said means for transferring, comprising first and second resistors in series between said first and second conduits; and
 - c) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage coupled to a node between said first and second

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resistors, wherein at least part of said means for reducing is electrically interposed between said at least one means for protecting and said means for transferring.

38. (Currently Amended) The circuit of Claim 2426, wherein said means for transferring has a maximum voltage swing of less than 2 volts.
39. (Currently Amended) The circuit of Claim 2426, wherein said at least one means for protecting comprises at least one diode.
40. (Original) The circuit of Claim 39, wherein said at least one diode has a threshold voltage greater than a voltage swing of said means for transferring.
41. (Original) The circuit of Claim 26, wherein said at least one means for protecting is in further communication with a low impedance node.
42. (Previously Presented) A circuit, comprising:
 - a) means for transferring a differential signal;
 - b) means for reducing a swing of said means for transferring, comprising first and second resistors in series and third and fourth resistors in series between said first and second resistors; and
 - c) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage, wherein at least part of said means for reducing is electrically interposed between said at least one means for protecting and said means for transferring.
43. (Original) The circuit of Claim 42, wherein said at least one means for protecting comprises (i) a first means for protecting coupled to a first node between said first and third resistors, and (ii) a second means for protecting coupled to a second node between said second and fourth resistors.

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44. (Currently Amended) An integrated circuit, comprising:
- a) first and second input terminals configured to receive a differential signal;
 - b) an input buffer configured to receive said differential signal; and
 - c) the circuit of Claim 43, wherein said differential signal transmission line communicates said differential signal from said input terminals to said input buffer.
45. (Canceled)
46. (Previously Presented) An integrated circuit, comprising:
- a) first and second input terminals configured to receive a differential signal;
 - b) an input buffer configured to receive said differential signal; and
 - c) a circuit, comprising:
 - i) a differential signal transmission line configured to communicate said differential signal from said input terminals to said input buffer;
 - ii) a common mode circuit comprising first and second resistances in series, said common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line; and
 - iii) at least one overvoltage protection circuit coupled to a node between said first and second resistances and in communication with said common mode circuit, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line.
47. (Previously Presented) The integrated circuit of Claim 44, wherein each of said first and second resistances is less than a resistance component of an impedance of said input buffer.

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48. (Previously Presented) The integrated circuit of Claim 44, wherein said common mode circuit further comprises a third resistor configured to receive a common mode voltage.
49. (Previously Presented) The integrated circuit of Claim 48, wherein said third resistor is coupled to a node between said first and second resistances.
50. (Previously Presented) The integrated circuit of Claim 48, wherein said third resistor has a resistance at least one hundred times greater than said resistance of said first and second resistances.
51. (Previously Presented) The integrated circuit of Claim 44, wherein said differential signal transmission line comprises a first conduit and a second conduit, wherein said second conduit is complementary to said first conduit.
52. (Canceled)
53. (Previously Presented) The integrated circuit of Claim 44, wherein said differential signal transmission line has a maximum voltage swing of less than 2 volts.
54. (Previously Presented) The integrated circuit of Claim 44, wherein said at least one overvoltage protection circuit comprises at least one diode.
55. (Canceled)
56. (Previously Presented) The integrated circuit of Claim 44, further comprising first and second input pins respectively coupled to said first and second input terminals and configured to receive an external differential signal.

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57. (Previously Presented) The integrated circuit of Claim 44, wherein said at least one overvoltage protection circuit is in further communication with a low impedance node.
58. (Original) The integrated circuit of Claim 57, wherein said low impedance node comprises a power supply node, a virtual ground node or a ground potential.
59. (Previously Presented) An integrated circuit, comprising:
- a) first and second input terminals configured to receive a differential signal;
 - b) an input buffer configured to receive said differential signal; and
 - c) a circuit, comprising:
 - i) a differential signal transmission line configured to communicate said differential signal from said input terminals to said input buffer;
 - ii) a common mode circuit comprising first and second resistances in series, and third and fourth resistors in series between said first and second resistances, said common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line; and
 - iii) at least one overvoltage protection circuit in communication with said common mode circuit, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line.
60. (Previously Presented) The integrated circuit of Claim 59, wherein said at least one overvoltage protection circuit comprises (i) a first overvoltage protection circuit coupled to a first node between said first resistance and said third resistor, and (ii) a second overvoltage protection circuit coupled to a second node between said second resistance and said fourth resistor.
61. (Original) A system for transferring data on or across a network, comprising:

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- a) the integrated circuit of Claim 44;
 - b) at least one transmitter communicatively coupled to said first and second input terminals, said transmitter being configured to transmit a differential data signal; and
 - c) at least one receiver communicatively coupled to said input buffer, said receiver being configured to receive said differential data signal.
62. (Original) The system of Claim 61, wherein said integrated circuit further comprises said receiver.
63. (Canceled)
64. (Currently Amended) The network of Claim ~~6384~~, wherein each of said storage or communications devices comprises a storage device.
65. (Currently Amended) An integrated circuit, comprising:
- a) means for receiving a differential signal;
 - b) means for buffering said differential signal; and
 - c) the circuit of Claim ~~2426~~, wherein said means for transferring communicates said differential signal from said means for receiving to said means for buffering.
66. (Original) The integrated circuit of Claim 65, wherein said means for reducing comprises first and second means for terminating said differential signal.
67. (Previously Presented) An integrated circuit, comprising:
- a) means for receiving a differential signal;
 - b) means for buffering said differential signal; and
 - c) a circuit, comprising:

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- i) means for transferring a differential signal that communicates said differential signal from said means for receiving to said means for buffering;
 - ii) means for reducing a swing of said means for transferring, comprising first and second means for terminating said differential signal; and
 - iii) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage coupled to a node between said first and second means for terminating, wherein at least part of said means for reducing is electrically interposed between said at least one means for protecting and said means for transferring.
68. (Original) The integrated circuit of Claim 66, wherein said first and second means for terminating each comprise a resistor having a resistance less than a resistance component of an impedance of said means for buffering.
69. (Original) The integrated circuit of Claim 66, wherein said means for reducing comprises a resistor configured to receive a common mode voltage.
70. (Original) The integrated circuit of Claim 69, wherein said resistor is coupled to a node between said first and second means for terminating.
71. (Previously Presented) An integrated circuit, comprising:
- a) means for receiving a differential signal;
 - b) means for buffering said differential signal; and
 - c) a circuit, comprising:
 - i) means for transferring a differential signal that communicates said differential signal from said means for receiving to said means for buffering;

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- ii) means for reducing a swing of said means for transferring, comprising first and second means for terminating said differential signal and a resistor configured to receive a common mode voltage coupled to a node between said first and second means for terminating; and
 - iii) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage coupled to said node between said first and second means for terminating, wherein at least part of said means for reducing is electrically interposed between said at least one means for protecting and said means for transferring.
72. (Original) The integrated circuit of Claim 70, wherein said resistor has a resistance at least one hundred times greater than a resistance of said first and second means for terminating.
73. (Original) The integrated circuit of Claim 65, wherein said means for transferring comprises a first conduit and a second conduit, wherein said second conduit is complementary to said first conduit.
74. (Previously Presented) An integrated circuit, comprising:
- a) means for receiving a differential signal;
 - b) means for buffering said differential signal; and
 - c) a circuit, comprising:
 - i) means for transferring a differential signal that communicates said differential signal from said means for receiving to said means for buffering, comprising a first conduit and a second conduit, wherein said second conduit is complementary to said first conduit;
 - ii) means for reducing a swing of said means for transferring, comprising first and second means for terminating said differential signal in series between said first and second conduits; and

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- iii) at least one means for protecting circuitry to which said differential signal is to be transferred from an overvoltage is coupled to a node between said first and second means for terminating.
75. (Original) The integrated circuit of Claim 65, wherein means for transferring has a maximum voltage swing of less than 2 volts.
76. (Original) The integrated circuit of Claim 65, wherein said at least one means for protecting comprises at least one diode.
77. (Original) The integrated circuit of Claim 76, wherein said at least one diode has a threshold voltage greater than a voltage swing of said means for transferring.
78. (Original) The integrated circuit of Claim 65, further comprising means for receiving an external differential signal coupled to said means for transferring.
79. (Original) The integrated circuit of Claim 65, wherein said at least one means for protecting is in communication with a low impedance node.
80. (Original) The integrated circuit of Claim 67, wherein said means for reducing further comprises first and second resistors in series between said first and second means for terminating.
81. (Original) The integrated circuit of Claim 80, wherein said at least one means for protecting comprises (i) a first means for protecting coupled to a first node between said first means for terminating and said first resistor, and (ii) a second means for protecting coupled to a second node between said second means for terminating and said second resistor.

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82. (Original) A system for transferring data on or across a network, comprising:
- a) the integrated circuit of Claim 65;
 - b) at least one means for transmitting a differential data signal, communicatively coupled to said means for transferring; and
 - c) at least one means for receiving said differential data signal, communicatively coupled to said means for buffering.
83. (Original) The system of Claim 82, wherein said integrated circuit further comprises said means for receiving.
84. (Original) A network, comprising:
- a) a plurality of the systems of Claim 82, communicatively coupled to each other, and
 - b) a plurality of means for storing or communicating, each of said means for storing or communicating being communicatively coupled to one of said systems.
85. (Original) The network of Claim 84, wherein each of said means for storing or communicating comprises a means for storing.
86. (Canceled)
87. (Canceled)
88. (Canceled)
89. (Canceled)
90. (Canceled)

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91. (Canceled)
92. (Canceled)
93. (Canceled)
94. (Canceled)
95. (Canceled)
96. (Canceled)
97. (Currently Amended) The circuit of Claim ~~43~~, wherein said differential signal transmission line has a maximum voltage swing of less than 2 volts.
98. (Previously Presented) The circuit of Claim 97, wherein said differential signal transmission line has a maximum voltage swing of less than 1.5 volts.
99. (Currently Amended) The circuit of Claim ~~43~~14, further comprising an input buffer configured to receive a differential signal from said differential signal transmission line, and said common mode circuit comprises first and second resistances in series.
100. (Previously Presented) The circuit of Claim 99, wherein each of said first and second resistances is less than a resistance component of an impedance of said input buffer.
101. (Previously Presented) The circuit of Claim 99, wherein said common mode circuit further comprises a third resistance configured to receive a common mode voltage.
102. (Previously Presented) A circuit, comprising:

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- a) a differential signal transmission line;
- b) an input buffer configured to receive a differential signal from said differential signal transmission line;
- c) a common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line and comprising first and second resistances in series and a third resistance configured to receive a common mode voltage; and
- d) an overvoltage protection circuit comprising at least one diode in communication with said common mode circuit and coupled to a node between said first and second resistances, wherein said at least one diode has a threshold voltage greater than a voltage swing of said differential signal transmission line and at least part of said common mode circuit is electrically interposed between said diode and said differential signal transmission line.

103. (Previously Presented) The circuit of Claim 101, wherein said third resistance is at least ten times greater than said first and second resistances.

104. (Previously Presented) The circuit of Claim 103, wherein said third resistance is at least one hundred times greater than said first and second resistances.

105. (Currently Amended) An integrated circuit, comprising:

- a) first and second input terminals configured to receive a differential signal;
- b) an input buffer configured to receive said differential signal; and
- c) the circuit of Claim ~~1814~~ 14, wherein said differential signal transmission line communicates said differential signal from said input terminals to said input buffer.

106. (Previously Presented) The integrated circuit of Claim 105, wherein said common mode circuit comprises first and second resistances in series, wherein each of said first and

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second resistances is less than a resistance component of an impedance of said input buffer.

107. (Previously Presented) The integrated circuit of Claim 105, wherein said common mode circuit further comprises a third resistance configured to receive a common mode voltage.
108. (Previously Presented) The integrated circuit of Claim 107, wherein said third resistance is coupled to a node between said first and second resistances.
109. (Previously Presented) The integrated circuit of Claim 107, wherein said third resistance is at least ten times greater than said first and second resistances.
110. (Previously Presented) The integrated circuit of Claim 109, wherein said third resistance is at least one hundred times greater than said first and second resistances.
111. (Currently Amended) The network of Claim ~~638~~4, wherein said common mode circuit comprises first and second resistances in series.
112. (Previously Presented) The network of Claim 111, wherein each of said first and second resistances is less than a resistance component of an impedance of said input buffer.
113. (Previously Presented) The network of Claim 111, wherein said common mode circuit further comprises a third resistance configured to receive a common mode voltage.
114. (Previously Presented) A network, comprising:
 - a) a plurality of systems, communicatively coupled to each other, each system comprising:
 - i) an integrated circuit, comprising first and second input terminals configured to receive a differential signal, an input buffer configured to

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receive said differential signal, and a circuit, comprising (i) a differential signal transmission line configured to communicate said differential signal from said input terminals to said input buffer, (ii) a common mode circuit in communication with said differential signal transmission line, configured to reduce a swing of said differential signal transmission line and comprising first and second resistances in series and a third resistance configured to receive a common mode voltage, and (iii) at least one overvoltage protection circuit in communication with said common mode circuit and coupled to a node between said first and second resistances, wherein at least part of said common mode circuit is electrically interposed between said overvoltage protection circuit and said differential signal transmission line, and said third resistance is at least ten times greater than said first and second resistances;

- ii) at least one transmitter communicatively coupled to said first and second input terminals, said transmitter being configured to transmit a differential data signal; and
 - iii) at least one receiver communicatively coupled to said input buffer, said receiver being configured to receive said differential data signal; and
- b) a plurality of storage or communications devices, each of said storage or communications devices being communicatively coupled to one of said systems.

115. (Previously Presented) The network of Claim 114, wherein said third resistance is at least one hundred times greater than said first and second resistances.
116. (Currently Amended) The network of Claim ~~63~~84, wherein said differential signal transmission line has a maximum voltage swing of less than 2 volts.
117. (Previously Presented) The network of Claim 116, wherein said differential signal transmission line has a maximum voltage swing of less than 1.5 volts.

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118. (Currently Amended) The network of Claim 6384, wherein said at least one overvoltage protection circuit comprises at least one diode.
119. (Previously Presented) The network of Claim 118, wherein said at least one diode has a threshold voltage greater than a voltage swing of said differential signal transmission line.
120. (Previously Presented) A circuit, comprising:
- a) a differential input signal;
 - b) a voltage divider in communication with said differential input signal, configured to reduce a swing of said differential signal transmission line; and
 - c) a common mode voltage and at least one overvoltage protection circuit coupled to a node in said voltage divider.
121. (Canceled)